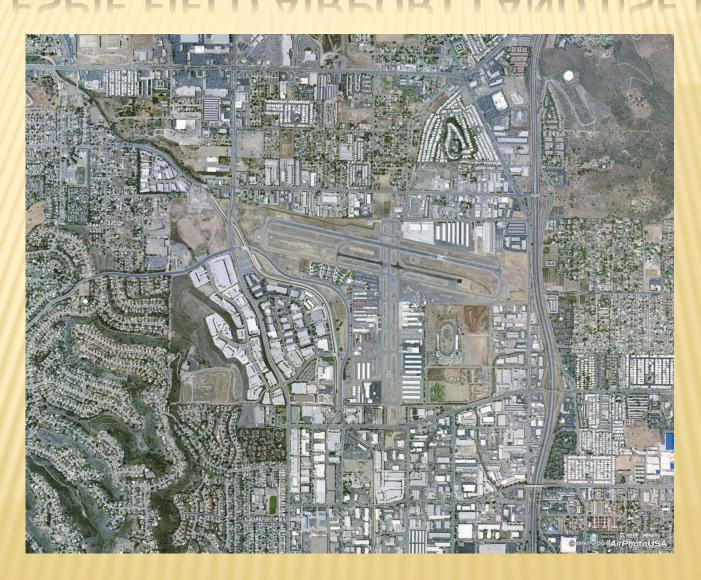
#### GILLESPIE FIELD AIRPORT LAND USE PLAN



# DISCLAIMER

\* The San Diego County Regional Airport
Authority (SDCRAA) is the Airport Land Use
Commission (ALUC) for Gillespie Field. This
presentation serves as a conceptual example
only. Actual project permitting authority will be
directed by the City of El Cajon.

# THE GOALS OF AIRPORT LAND USE PLANS

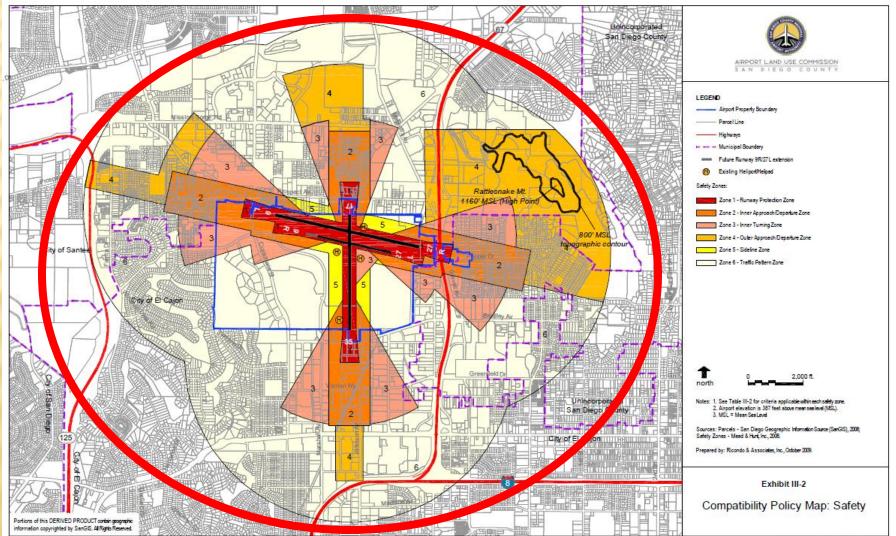
- Protect the safety of people on the ground and in the air.
- Protect the airports from encroachment that could restrict operations.
- Ensure compatible development within the Airport Influence Area.
- Requires Local Municipalities to modify their zoning to be compatible with the Airport Land Use Plans.

# WHAT IS AN AIRPORT INFLUENCE AREA?

The Airport Influence Area (AIA) comprise of key areas surrounding an airport affected by aircraft operations.

State law (AB 2776) requires the Airport Land Use Commission (ALUC) to establish Airport Land Use Plans within the AIA. The San Diego County Regional Airport Authority (SDCRAA) is the ALUC for San Diego.

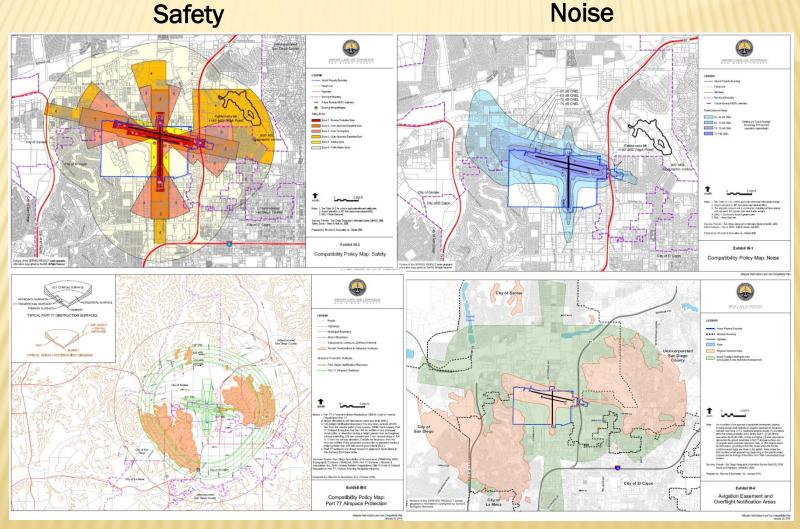
#### THE "BASIC" AIRPORT INFLUENCE AREA



#### PROJECT SITE - WITHIN AIA



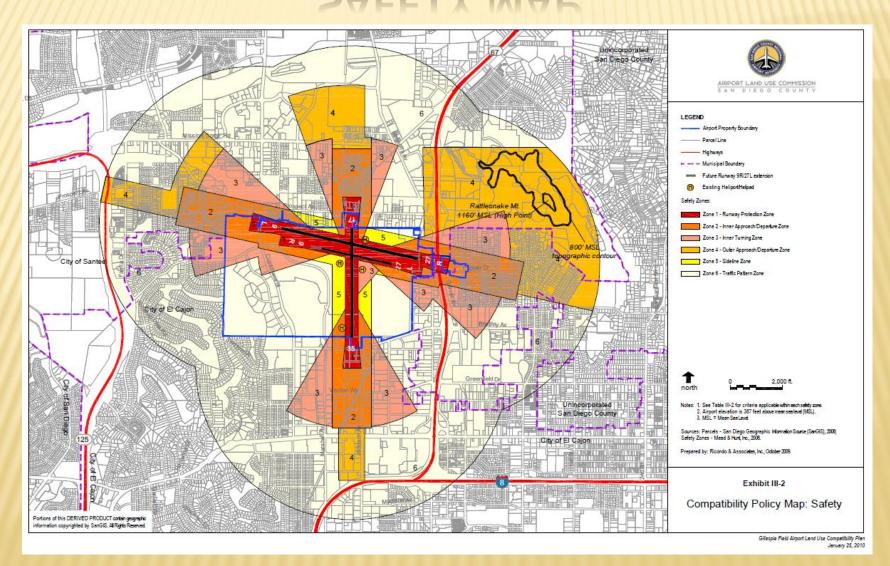
#### AIRPORT LAND USE PLANS HAVE 4 KEY LAYERS



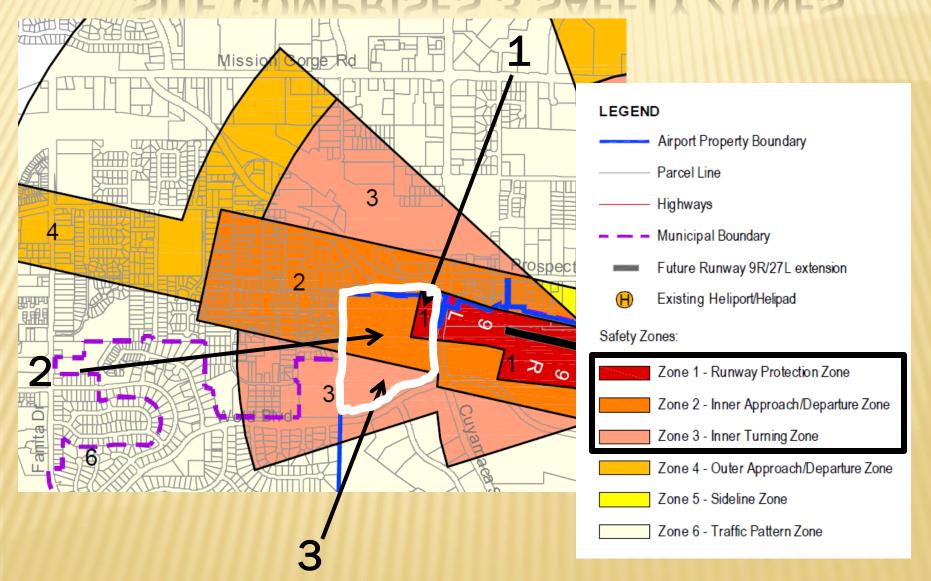
Obstruction

Easement/Over flight

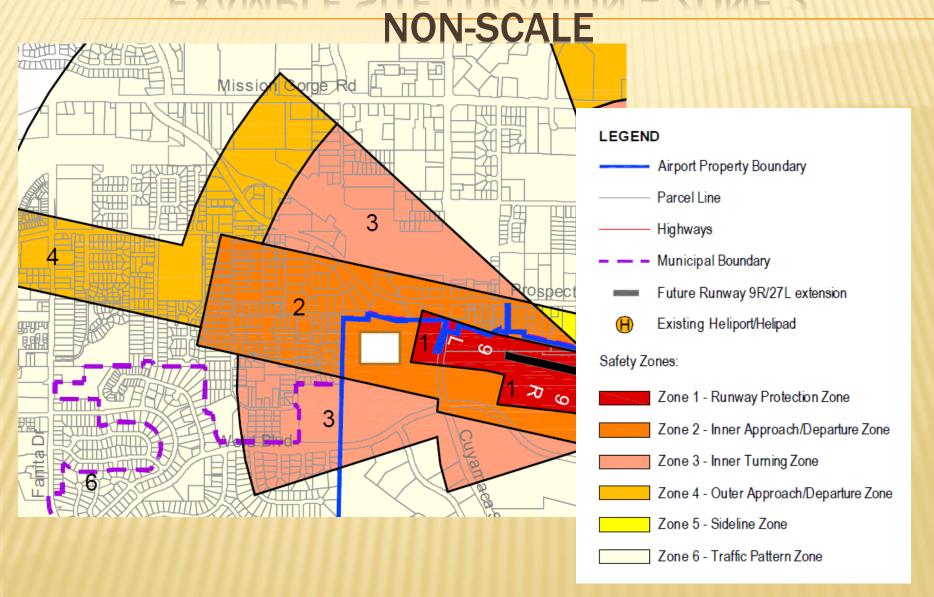
## SAFETY MAP



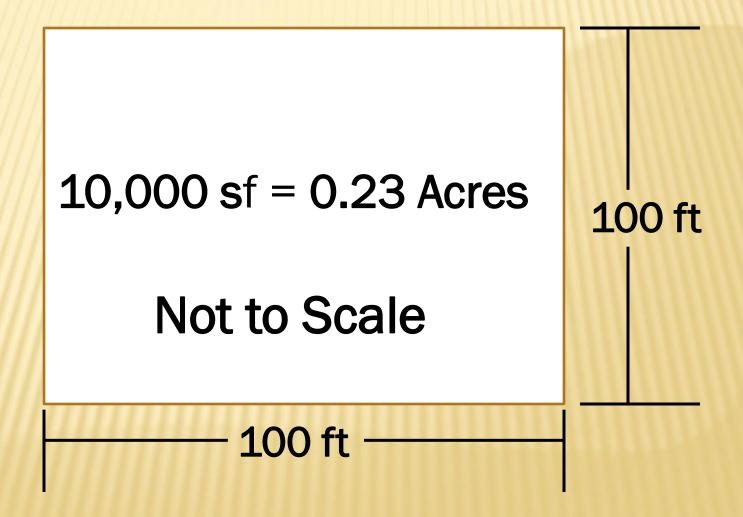
### SITE COMPRISES 3 SAFETY ZONES



#### **EXAMPLE SITE LOCATION - ZONE 2**



# EXAMPLE SITE - ZONE 2



## LETS DO A COMPREHENSIVE EXAMPLE

Assume Industrial Manufacturing Development
Area of focus - Zone 2, 10,000 sf site

- What Max. Intensity (people/acre) can I have?
- What Lot Coverage can I have?
- What Max. Floor Area Ratio can I have?
- How high can I build my building?
- Is the Development noise restricted?
- Is an Easement and Notification required?

## WHAT IS MAX. INTENSITY (PEOPLE/ACRE)?



## WHAT IS RISK REDUCTION?

Risk Reduction allows more people per acre...

\*Risk Reduction methods include: Fire Sprinklers, Extra Fire Exits, Stronger Roof Design, Increased Fire Resist materials, etc... to the satisfaction of the permitting agency

# SAFETY COMPATIBILITY TABLE

Safety Compatibility Criteria											
Land Use Types / Typical Uses  • Multiple land use categories and compatibility criteria may apply to a project • See Policy 3-4.7 for limits on ancillary uses ¹  • Maximum Intensity (People/Gross Acre - sitewide average) ²  Nonresidential development 1  Intensity with Risk  Reduction Policy Objectives (People/Gross Acre - sitewide average)  Nonresidential development ³				Safety	Zone						
		1	2	130	130	<b>5</b> 200	6	Criteria for Conditional (yellow) Uses  Maximum Intensity and Lot Coverage limits apply to all Conditional uses 4  Numbers below refer to zones in			
		0	70				No limit				
		n/a	105	260	260	400	No limit	which condition specified is applicable  Numbers in yellow cells are Floor Area Ratios for indicated uses 4			
Maximum Lot Coverage (Bldg footprint/site size) Applicable to all conditional development		0%	50%	60%	70%	70%	100%	Ratios for indicated uses 4			
Misc. Service Uses: car washes, barbers, animal kennels, print shops [approx. 200 s.f./person]	В		0.32 0.48					2: FAR limits as indicated			
Hotels, Motels (except conference/ assembly facilities) [approx. 200 s.f./person]	R-1		0.32	0.60	0.60 1.19	0.92		2 - 5: FAR limits as indicated			
Bed & Breakfast Establishments	R-3		0.40	1.10	1.10	1.04		2: Maximum 5 rooms			
Industrial, Manufacturing, and Warehouse Uses											
Processing and Storage of Bulk Quantities of Highly Hazardous Materials (tank capacity >10,000 gallons): oil refinenes, chemical plants	_							6: Must comply with all federal, state, and local standards; permitting agencies shall evaluate need for special measures to minimize hazards if facility struck by aircraft See Policy 3.4.6(b)			
Storage or Use of Hazardous (flammable, explosive, corrosive, or toxic) Materials	_							2 - 5: Must comply with all federal, state, and local standards; permitting agencies shall evaluate need for special measures to minimize hazards if facility struck by aircraft See Policy 3.4.6(b)			
Auto, Aircraft, Marine Repair Services	H-4										
Manufacturing [300 s.f./person]	F-1, 2, H-1, 2, 3, 7		0.48	0.90	0.90	1.38 2.75		2 - 5: FAR limits as indicated			
Research & Development [300 s.f./person]	H-6		0.48	0.90	0.90	1.38		2 - 5: FAR limits as indicated			
Industrial Outdoor Storage, except hazardous uses: public works yards, auto wrecking yards	_		5,72	1,10	1,10	2,10		1: No habitable structures (e.g., offices); no development in Object Free Area **			
Warehouses, Distribution Facilities	S-1, 2										
Gas Stations, Repair Garages	S-3										

## EXAMPLE MAX PEOPLE/ACRE

7111111						AUI	4
	EV		IVI	VL		A C L	G

Table III-2											
Safety Compatibility Criteria											
Land Use Types / Typical Uses     Multiple land use categories and compatibility criteria may apply to a project	CBC Group			2	Safety Zone				C. Harda Cara Hillard I		
See Policy 3-4.7 for limits on ancillary uses 1	*	1		2	3	130	5 200 400 70%	No limit	Criteria for Conditional (yellow) Uses		
Maximum Intensity (People/Gross Acre – sitewide average) <sup>2</sup> Nonresidential development		0 n/a		70 105 50%	130				Maximum Intensity and Lot Coverage limits apply to all Conditional uses 4     Numbers below refer to zones in		
Intensity with Risk Reduction Policy Objectives (People/Gross Acre – sitewide average) Nonresidential development <sup>3</sup>					260	260		No limit	which condition specified is applicable      Numbers in yellow cells are Floor Area Ratios for indicated uses 4		
Maximum Lot Coverage (Bldg footprint/site size) Applicable to all conditional development		0%			60%	70%		100%			
Auto Aircraft Marine Renair Services	H-4		ı								
Manufacturing [300 s.f./person]	F-1, 2, H-1, 2, 3, 7			0.48	0.90	0.90 1.79	1.38 2.75	•	2 - 5: FAR limits as indicated		
Research & Development [300 s.f./person]	H-6			0.48	0.90	0.90 1.79	1.38 2.75		2 - 5: FAR limits as indicated		
Industrial Outdoor Storage, except hazardous uses: public works yards, auto wrecking yards	_								1: No habitable structures (e.g., offices); n development in <i>Object Free Area</i> **		
Warehouses, Distribution Facilities	S-1, 2										
Gas Stations, Repair Garages	S-3										

#### WHAT IS MAX PEOPLE PER ACRE USING (FAR)?

People per Acre =  $(FAR) \times (43,560 \text{ sf/Acre})$ (sf per Person)

People per Acre =  $(.72) \times (43,560 \text{ sf/Acre})$ (300 sf/person)

People per Acre = 104

# WHAT IS MAX. INTENSITY (ON OUR SITE)

(0.23acres)(104) = 24 people

10,000 sf = 0.23 Acres

## WHAT IS MAX. INTENSITY (PEOPLE/ACRE)

(0.23acres)(104) = 24 people



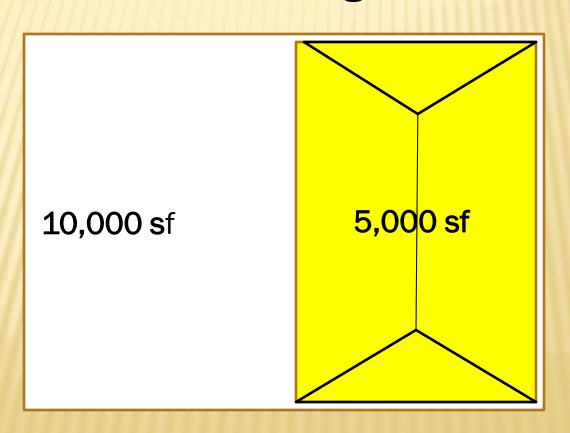
# WHAT IS MY MAX LOT COVERAGE?

# **EXAMPLE LOT COVERAGE**

Safety Compatibility Criteria	Г										
Land Use Types / Typical Uses			r		Safety Zone						
<ul> <li>Multiple land use categories and compatibility criteria may apply to a <i>project</i></li> <li>See Policy 3-4.7 for limits on ancillary uses <sup>1</sup></li> </ul>	CBC Group	1		2	3	4	5	6	Criteria for Conditional ( <mark>yellow)</mark> Uses		
Maximum Intensity (People/Gross Acre – sitewide average) <sup>2</sup> Nonresidential development	2	0		70 105	130	130	200	No limit	Maximum Intensity and Lot Coverage limits apply to all Conditional uses <sup>4</sup> Numbers below refer to zones in		
Intensity with Risk Reduction Policy Objectives (People/Gross Acre – sitewide average) Nonresidential development <sup>3</sup>		n/a			260	260	400	No limit	which condition specified is applicable  Numbers in yellow cells are Floor Are Ratios for indicated uses 4		
Maximum Lot Coverage (Bldg footprint/site size) Applicable to all conditional development		0%		50%	60%	70%	70%	100%			
Auto Aircraft Marine Repair Services	H-4		ı								
Manufacturing [300 s.f./person]	F-1, 2, H-1, 2, 3, 7		ı	0.48	0.90 1.79	0.90 1.79	1.38 2.75		2 - 5: FAR limits as indicated		
Research & Development [300 s.f./person]	H-6		ı	0.48	0.90	0.90	1.38 2.75		2 - 5: FAR limits as indicated		
Industrial Outdoor Storage, except hazardous uses: public works yards, auto wrecking yards	_								1: No habitable structures (e.g., offices); no development in <i>Object Free Area</i> **		
Warehouses, Distribution Facilities	S-1, 2										
Gas Stations, Repair Garages	S-3			ĺ							

# WHAT IS MY MAX LOT COVERAGE?

#### Max Lot Coverage = 50%



## USE (FAR) TO FIND BUILDABLE FLOOR SPACE

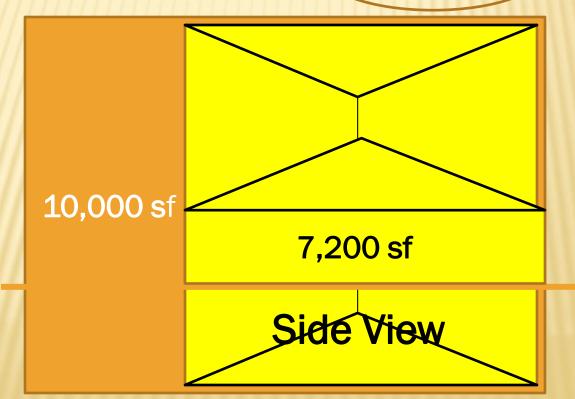
FAR = <u>Gross Building Floor Area</u> Total Site Area

Gross Building Area = 7,200sf

## LOT COVERAGE VS FAR

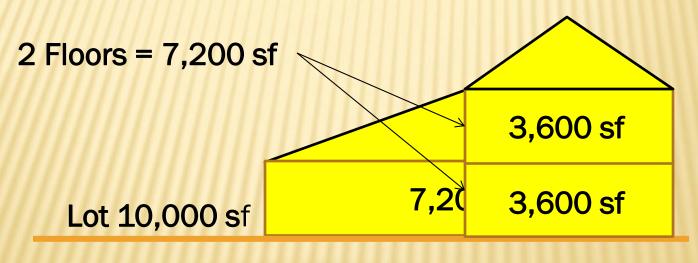
Zone 2 - Per the chart:

Max Lot Coverage = 50%; FAR = 0.72



## LOT COVERAGE VS FAR

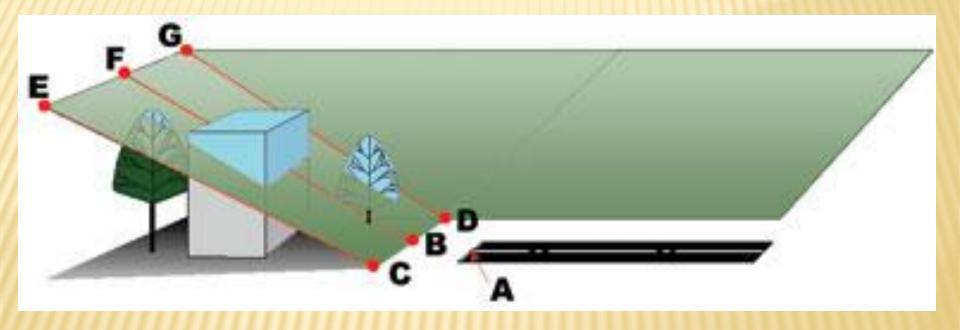
Zone 2 - Per the chart:



2 Stories

## FAA OBSTRUCTION CLEARANCES

**Imaginary Surfaces Under FAA Part 77** 



# FAA PART 77 - CLEARANCES

Zone 2 – How high can the Building be?



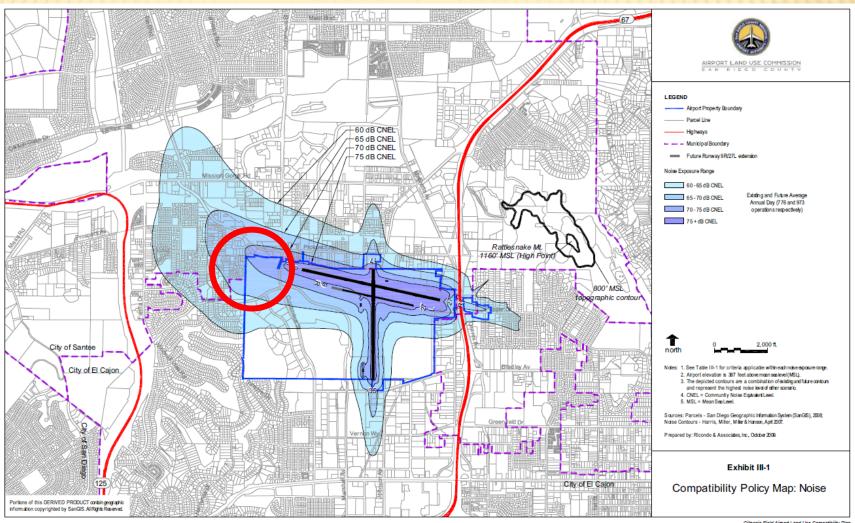
# FAA PART 77 - CLEARANCES

Zone 2 – How high can the Building be?

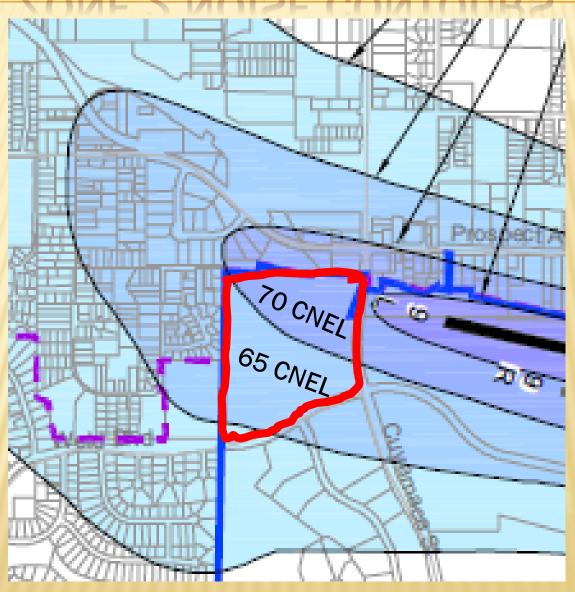


\*Estim ated 32ft contingent upon FAA Approval per FAA 7460-1 Approval process

### **NOISE MAP**



# **ZONE 2 NOISE CONTOURS**



# WHAT ARE CNEL'S?

Community Noise Equivalent Levels (CNELs)

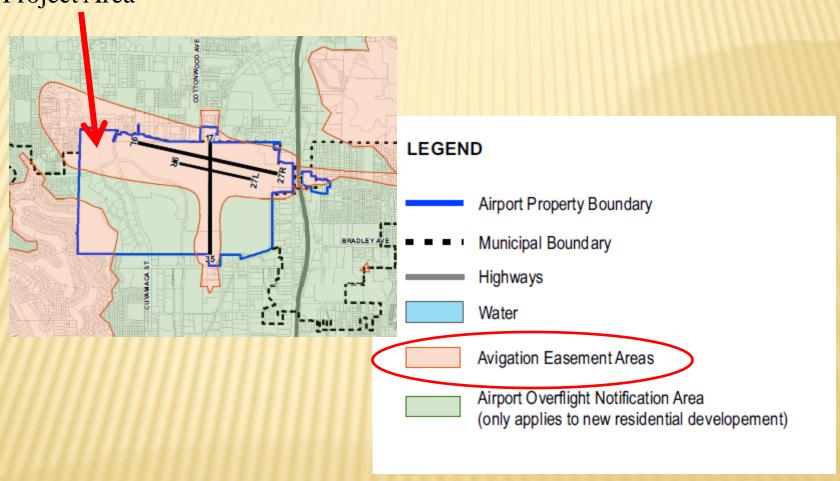
A CNEL is the average sound level measured over a 24hr period (simplified)

# NOISE COMPATIBILITY TABLE

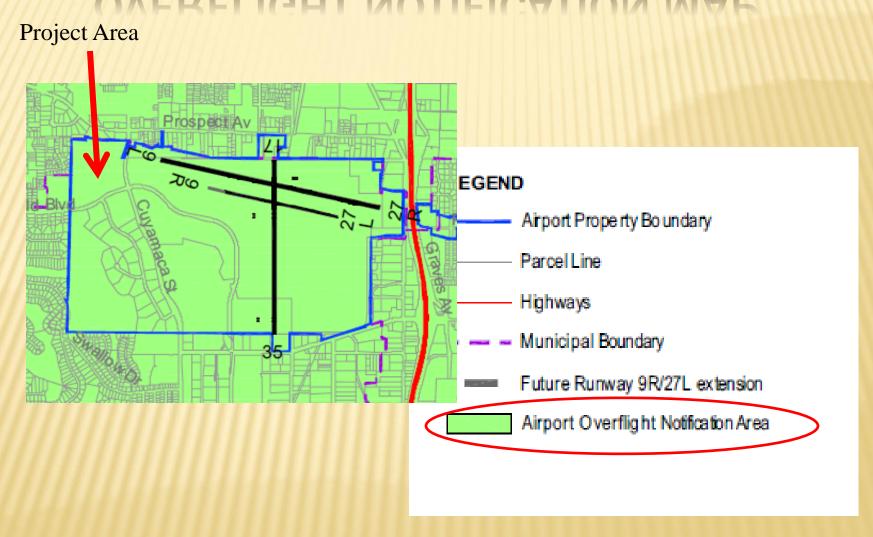
Table III-1 Continued				
Noise Compatibility Criteria				
Land Use Category <sup>1</sup>	Exteri	or Noise Ex	osure (dB	CNEL
Note: Multiple categories may apply to a project	60-65	65-70	70–75	75-80
industrial; manufacturing; it search & development; auto, marine, other sales & repair services, car waches, gas stations; trucking, transportation terminals			50 C	
extractive industry; utilities; road, rail rights-of-way; outdoor storage; public works yards; automobile parking; automobile dismantling; solid waste facilities				50 C
animal shelters/kennels	50	50	50	

# AVIGATION EASEMENT – NOT REQUIRED ALL WITHIN COUNTY LAND

Project Area



## OVERFLIGHT NOTIFICATION MAP



#### COMPLETED EXAMPLE

Assume Industrial Manufacturing Development
Area of focus - Zone 2, 10,000 sf site

Max. Intensity = 24 Persons

\* Max. Lot Coverage = 50%

Max. Floor Area Ratio (FAR) = 0.72

Approx. Build Height\* = 32ft

Noise Restrictions = none

\* Easement/Notification = required



# TO ACCESS THE GILLESPIE LAND USE PLAN

#### Internet Search-

"San Diego County Regional Airport Authority" Then click "Airport Projects", then "Land Use Compatibility, then ALUCPs, then Gillespie

#### Or use the link below:

http://www.san.org/sdcraa/airport\_initiatives/la
nd\_use/adopted\_docs.aspx

# TO ACCESS THE FAA'S FORM 7460-1 OBSTRUCTION AVOIDANCE

Use the link below:

https://oeaaa.faa.gov/oeaaa/external/portal.jsp